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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/729,052	12/05/2003	Robert Gerald Lipmyer	0603.00002	9266

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EXAMINER

NOORI, MAX H

ART UNIT PAPER NUMBER

2855

DATE MAILED: 08/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/729,052

Applicant(s)

LIPMYER, ROBERT GERALD

Examiner

Max Noori

Art Unit

2855

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 22 July 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 5-7 and 12-16 is/are allowed.
- 6) ☒ Claim(s) 1-4 and 8-11 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-4, 8-11 rejected under 35 U.S.C. 103(a) as being unpatentable over Wiley et al., in view of Stopper.

Regarding claims 1 and 8, Wiley et al. teaches at least one body 1, a centralized data-receiving unit 25, a plurality of sensors (Col. 6-7, lines 55-1 1) arranged remotely from said at least one centralized data receiving unit to generate electrical signals of data relating to a vehicular collision (See Abstract) and a plurality of flexible cables 28 electrically interconnecting said sensors and the centralized data receiving unit to transmit the electrical signals from said sensors to said centralized data receiving unit 25 (Col. 8, lines 1-9). Wiley et al. fails to specifically disclose the utilization of flexible printed circuit cables. Stopper teaches that the utilization of printed circuit cables is commonly known and expected in the electronics art (Col. 2, lines 4-6, 19-24). It would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify the test dummy of Wiley et al. utilizing the teachings of the cable system of Stopper by providing it with printed circuit cables in order to enable compaction and allow for the making of calculations advanced, reliable and efficient manner (Col. 2, lines 55-60).

With respect to claims 2 and 9, Wiley et al. teaches said sensors 23 and 24 (Col. 6-7, lines 55-10) and said flexible cables 28 are disposed within an internal cavity of the crash test dummy 1 (note that the dummy structure is hollow as shown in Figure 1 and covered with a skin like covering as noted in Col. 5, lines 62-66, and that both the sensing structures and the leads are located inside said hollow structure).

With respect to claims 3 and 10, Wiley et al. teaches said at least one centralized data receiving unit 25 is disposed within the internal cavity of the crash test dummy as noted in Figure 1 (note that the dummy structure is hollow as shown in Figure 1 and covered with a skin like covering as noted in Col. 5, Lines 62-66).

With respect to claims 4 and 11, Wiley et al. teaches said at least one centralized data receiving unit 25 comprises a connection block 27 and at least one of said flexible cables 28 being electrically connected to said connection block as noted in Figure 3 (Col. 11, Lines 54-62).

3. Claims 5-7, 12-16 are allowed over the prior art of the record.

#### ***Response to Amendment***

4. Applicant's amendment and arguments filed 7/22/05 have been fully considered and the rejections of some claims are withdrawn in view of such amendments. The argument regarding the remaining rejected claims however, are not persuasive. The rejection is a clear case of obviousness; the primary reference shows all the elements of the claimed invention except for one aspect, which is the use of flexible printed circuit board cable. The secondary reference is only presented to show that the use of such flexible board in connection to data receiving unit is

Art Unit: 2855

known. The secondary reference clearly teaches that such board can be used for any related application to allow efficient communication. Thus, the rejection, if fact, uses a legitimate motivation for combination of the art as explained above.

5. THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for response to this final action is set to expire THREE MONTHS from the date of this action. In the event a first response is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event will the statutory period for response expire later than SIX MONTHS from the date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Max H. Noori whose telephone number is (571) 272-2185. The examiner can normally be reached on Tuesday-Friday from 8:00 AM to 6:00 PM.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0956. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. The central fax number is (703) 827-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MHN  
Monday, August 02, 2005



**MAX NOORI**  
**PRIMARY EXAMINER**